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Attorneys for Federal Defendants

UNITED STATES DISTRICT COURT
DISTRICT OF OREGON

NORTHWEST ENVIRONMENTAL
ADVOCATES, a non-profit corporation,

Plaintiff,

v.

UNITED STATES ENVIRONMENTAL
PROTECTION AGENCY, NATIONAL MARINE
FISHERIES SERVICE, and UNITED STATES
FISH AND WILDLIFE SERVICE,

Defendants.

Civ. No. 05-1876-HA

UNITED STATES' NOTICE
OF FILING NATIONAL
MARINE FISHERIES
SERVICE'S CERTIFIED
INDEX OF ITS
ADMINISTRATIVE
RECORD

Notice is hereby provided to the Court and the parties that the United States is hereby filing United States National Marine Fisheries Service's ("NMFS") certified index to the administrative record. The Certified Index to NMFS's Administrative Record is attached to this Notice of Filing as Attachment A. In order to lessen the burden on the Court of managing the large administrative record, the administrative record documents themselves will not be filed with the Court. Instead, the United States intends to file all administrative record documents cited by the parties in their summary judgment briefs as excerpts of record at the conclusion of the briefing schedule. Conversely, if the Court prefers to receive documents cited in the briefs prior to the conclusion of the briefing, the United States will work with the other parties to facilitate prompt delivery of those documents on the schedule desired by the Court.

Copies of NMFS's administrative record documents are being mailed today to counsel for the parties identified in the Certificate of Service.

Respectfully submitted,

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Attorneys for United States of America

Dated: June 7, 2006

CERTIFICATE OF SERVICE

I hereby certify that on June 7, 2006, I caused a true copy of the UNITED STATES' NOTICE OF FILING NMFS'S CERTIFIED INDEX OF ITS ADMINISTRATIVE RECORD to be served on each of the following named persons at his or her last known addresses in the manner indicated below:

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ATTACHMENT A

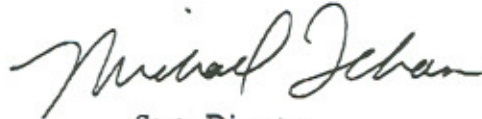
U.S. DEPARTMENT OF COMMERCE

Form CD-64
(Revised)
Prescribed by
DAO 201.17

Portland, Oregon
June 7, 2006

I HEREBY CERTIFY that the annexed is a true copy of the administrative record for the Biological Opinion on EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Implementation Methods (February 23, 2004), on file in the Oregon State Habitat Branch of the Habitat Conservation Division, National Marine Fisheries Service, 1201 Lloyd Boulevard, Suite 1100, Portland, OR 97232.

Michael Tehan

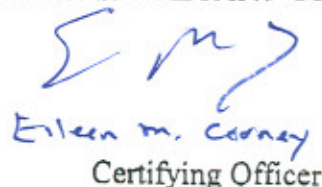


State Director
Oregon State Habitat Office
Habitat Conservation Division
National Marine Fisheries Service
Northwest Region

I HEREBY CERTIFY that Michael Tehan, who signed the foregoing certificate, is now and was at the time of signing, a custodian of records, National Marine Fisheries Service, Northwest Region, Oregon State Habitat Branch, Portland, Oregon, and that full faith and credit should be given to his certificate as such.

IN WITNESS WHEREOF, I have hereunto subscribed my name, and caused the seal of the Department of Commerce to be affixed this 7 day of June, two thousand six.

For the SECRETARY OF COMMERCE:



Eileen M. Conroy
Certifying Officer

SEAL

USCOMM-DC 1359-P71

ADMINISTRATIVE RECORD INDEX

For National Marine Fisheries Service's February 24, 2004, Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation on EPA's Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen and Antidegradation Implementation Methods

NMFS Tracking Nos.:
[F/NWR/2003/01568] (ESA)
[F/NWR/2004/00087] (EFH)

A. NMFS Documents

NO.	DATE	DOCUMENT
1.	2/23/2004	Letter to Randall F. Smith, EPA from D. Robert Lohn, NMFS, re: Biological Opinion on EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Implementation Methods
2.	2/23/2004	Endangered Species Act – Section 7 Consultation Biological Opinion & Magnuson Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation: EPA's Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Implementation Methods, February 23, 2004.
3.	2/4/2004	Email from Chris Mebane, NMFS, to Robert C. Anderson, NMFS, re: Reference for ODEQ temperature data Att. 1: 16v18doc (Comparison of continuous-temperature data and temperature modeling with proposed Oregon "colder-water" salmon and steelhead trout rearing" beneficial use designations
4.	1/29/2004	Email from Mark Charles, DEQ, to Jeff Lockwood, NMFS re: DEQ Temperature Letter No. 2 (pertains to draft of February 4, 2004 letter from Michael Llewelyn, DEQ, to Randy Smith, EPA)

5.	1/29/2004	Email to Mark Charles, DEQ, Marylou Soscia, EPA, Adrienne Allen, EPA, Cara Lalley, EPA, Danielle Tillman, EPA, Dru Keenan, EPA, Elizabeth Materna, EPA, Jeff Lockwood, NMFS, John Hocjjeimer, Tetrattech, John Palmer, EPA, Keith Cohon, EPA, Kellie Kubena, EPA, Maryellen Levine, EPA, Mindy Gampel, EPA, Mark Morris, EPA, Melanie Rowland, NMFS GCNW, Paula Vanhaagen, EPA, Robert C. Anderson, NMFS, Stephanie Thornton, EPA, Steve Ellis, Tetrattech, Debra Sturdevant, DEQ, Ralph Stephen, EPA, Ted Buerger, FWS, Tom Townsend, EPA, Tonya Fish, EPA, William Bogue, EPA, and Nancy Wilson, EPA, from Jeff Lockwood, NMFS re: DEQ Temperature Letter No. 2 (pertains to draft of February 4, 2004 letter from Michael Llewelyn, DEQ, to Randy Smith, EPA)
6.	11/19/2003	Email to Jeff Lockwood, NMFS, from Dan Gambetta, NMFS, re: IGDO paper analysis
7.	11/18/2003	Email to Jeff Lockwood, NMFS, from Dan Gambetta, NMFS, re: thermal shock
8.	10/2/2003	Letter to Michael T. Llewelyn, ODEQ, (Attn. Emily Smith), from Michael Tehan, NMFS, Re: Comments on Draft Proposed Revisions to the Oregon Water Quality Criteria for Temperature and Intergravel Dissolved Oxygen, and Antidegradation Provisions

B. EPA Documents

NO.	DATE	DOCUMENT
9.	2/4/2004	Letter to Michael Tehan, NMFS, and Kemper McMaster, USFWS, from Randall Smith, EPA, re: Transmittal of Biological Evaluation of the Revised Oregon Water Quality Standards Att. 1: Biological Evaluation of the Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation, Amended Final, prepared for USFWS and NMFS by EPA, Region 10 [See State Document Section E (Document numbers 104-115) of this index for color versions of maps included in Appendix B].
10.	1/9/2004	Letter to Michael Tehan, NMFS, and Kemper McMaster, USFWS, from Randall Smith, re: Transmittal of 12/16/03 Biological Evaluation of the Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Att. 1: Biological Evaluation of the Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation prepared for USFWS and NMFS by EPA, Region 10 December 19, 2003

11.	10/10/2003	Environmental Protection Agency Proposed Rule and Preamble: Water Quality Standards for Oregon, 40 CFR Part 131; http://www.epa.gov/fedrgstr/EPA-WATER/2003/October/Day-10/w25525.htm
12.	10/3/2003	Letter to Michael Llewelyn, DEQ, from Ranall Smith, EPA, Re: Comments on Oregon's Proposed Revisions to OAR Division 41, Water Quality Standards: Beneficial Uses, Policies and Criteria for Oregon.

C. Other Documents

NO.	DATE	DOCUMENT
13.	2/24/2004	Letter to Randy Smith, EPA, from Olney Patt, Jr., CRFITC, Re: Concerns regarding ongoing Oregon Water Quality Standards review process. Attachment A: Technical Comments and Concerns
14.	2/24/2004	Fax to Jeff Lockwood, NMFS, Michael Tehan, NMFS, Cathy Tortorici, NMFS, Robert C. Anderson, NMFS, Ritchie Graves, NMFS, Brian Brown, NMFS, D. Anderson, NMFS, and Gary Sims, NMFS from Greg Haller, Nez Perce Water Resources Division Re: Letter to EPA
15.	2/10/2004	Letter to Randy Smith, EPA, and Michael Crouse, NMFS, from Melissa Powers and Stephanie Parent, Pacific Environmental Advocacy Center Re: Deficiencies in Oregon's recent water quality standards revision process.
16.	10/03/2003	Letter to Michael Llewelyn, ODEQ, from Olney Patt, Jr., Columbia River Inter-Tribal Fish Commission, re: Comments on the Revision of Water Quality Criteria for Temperature (OAR Chapter 340, Division 041) [Refer to EPA Doc. 18] Att. 1: Appendix A: Rule Amendments Made without Notice of Intended Action [Refer to EPA Doc. 18] Att. 2: Appendix B: Technical Comments [Refer to EPA Doc. 18] Att. 3: Appendix C: Proposal for Rectifying Some Problems with the ODEQ Standard [Refer to EPA Doc. 18] Att. 4: Appendix D: Quotations from EPA Regional Guidance [Refer to EPA Index no. 18]
17.	8/29/2003	Letter to Mike Llewelyn, ODEQ, from William H. Burke, Confederated Tribes of the Umatilla Indian Reservation Tribal Water Commission, Re: Comments on the Proposed Changes to Water Quality Standards, OAR 340-041 and related matters.

D. Scientific Literature

NO.	DATE	DOCUMENT
18.	1995	Botkin, D., K. Cummins, T. Dunne, H. Regier, M. Sobel, and L. Talt. 1995. Status and future of salmon of western Oregon and northern California: Findings and options. Report #8. The Center for the Study of the Environment, Santa Barbara, California. http://www.naturestudy.org/services/publica.htm
19.	1965	Brannon, E.L. 1965. The influence of physical factors on the development and weight of sockeye salmon embryos and alevins. Progress Report No. 12. International Pacific Salmon Fisheries Commission, New Westminster, B.C., Canada.
20.	1996	Busby, P. J., T. C. Wainwright, G. J. Bryant, L. Leirheimer, R. S. Waples, F. W. Waknitz, and I. V. Lagomarsino. 1996. Status review of west coast steelhead from Washington, Idaho, Oregon, and California. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-NWFSC-27. 281 p.
21.	1985	Carson, K.A. 1985. A model of salmonid egg respiration. M.S. thesis. Agricultural and Chemical Engineering Department, Colorado State University, Fort Collins. 108 p.
22.	1987	Chapman, D.W. and K.P. McLeod. 1987. Development of criteria for fine sediment in the Northern Rockies ecoregion. Final Report. EPA contract no. 68-01-6986.
23.	1994	Chapman, D., C. Pevan, T. Hillman, A. Giorgi, and F. Utter. 1994. Status of summer steelhead in the mid-Columbia River. Don Chapman Consultants, Inc., Boise, Idaho.
24.	1961	Coble, D.W. 1961. Influence of water exchange and dissolved oxygen on survival of steelhead trout embryos. Trans. Am. Fish. Soc. 90(4):469-474.
25.	2002	Cooney, T.D. 2002. UCR steelhead and spring chinook salmon quantitative analysis report. Part 1: Run reconstructions and preliminary assessment of extinction risk. National Marine Fisheries Service, Hydro Program, Technical Review Draft, Portland, Oregon.
26.	1973	Coutant, C.C. 1973. Effects of thermal shock on vulnerability of juvenile salmonids to predation. J. Fish. Res. Bd. Canada 30:965-973.
27.	2003	Dewberry, T.C. 2003. Development and application of anchor habitat approaches to salmon conservation: A synthesis of data and observation from the Siuslaw watershed, coastal Oregon. Unpublished draft report. Portland, Oregon. 16 p. July.
28.	2001	Dunham, J., J. Lockwood, and C. Mebane. 2001. Salmonid Distribution and Temperature. Issue Paper 2. Prepared as part of EPA Region 10 Temperature Water Quality Criteria Guidance Development Project. EPA-910-D-01-002. U.S. Environmental Protection Agency, Region 10, Seattle, Washington. 22 p.

29.	1971	Ebel, W.J., E.M. Dawley, and B.H. Monk. 1971. Thermal tolerance of juvenile Pacific salmon and steelhead trout in relation to supersaturation of nitrogen gas. United States Fisheries Bulletin 69(4):833-843.
30.	2000	Ecotrust, Oregon Trout, and The Wild Salmon Center. 2000. A Salmon Anchor Habitat Strategy for the Tillamook and Clatsop State Forests. Updated Version, March 2001. Portland, Oregon. 29 p. plus appendices.
31.	2003	EPA (Environmental Protection Agency). 2003. EPA Region 10 Guidance for Pacific Northwest State and Tribal Temperature Water Quality Standards. U.S. Environmental Protection Agency, Region 10, Office of Water, Seattle, WA. 49 p. www.epa.gov/r10earth/temperature.htm
32.	1895	Evermann, B.W. 1895. A preliminary report upon salmon investigations in Idaho in 1894. U.S. Fish Commission Bulletin 15:253-284.
33.	1993	FEMAT (Forest Ecosystem Management Assessment Team). 1993. Forest ecosystem management; and ecological, economic, and social assessment. Report of the Forest Ecosystem Management Assessment Team. U.S. Government Printing Office 1993-793-071. U.S. Government Printing Office for the U.S.D.A. Forest Service; U.S. Department of Interior, Fish and Wildlife Service, Bureau of Land Management, and National Park Service; U.S. Department of Commerce, National Oceanic and Atmospheric Administration and National Marine Fisheries Service; and the U.S. Environmental Protection Agency.
34.	2003	Fish Passage Center. 2003. Fish Passage Center annual report-2002. Fish Passage Center, Columbia River Basin Fish and Wildlife Authority, Portland, OR.
35.	1968	Fulton, L.A. 1968. Spawning areas and abundance of Chinook salmon, <i>Oncorhynchus tshawytscha</i> , in the Columbia River basin-past and present. U.S. Fish and Wildlife Service, Special Scientific Report, Fisheries 571:26.
36.	1970	Fulton, L.A. 1970. Spawning areas and abundance of steelhead trout and coho, sockeye, and chum salmon in the Columbia River basin-past and present. U.S. Fish and Wildlife Service, Special Scientific Report, Fisheries 618.
37.	1987	Hassler, T.J. 1987. Species profiles: Life histories and environmental requirements of coastal fishes and invertebrates (Pacific Southwest) – coho salmon. U.S. Fish Wildl. Serv. Biol. Rep. 82(11.70). U.S. Army Corps of Engineers, TR EL-82-4. 19 p. http://www.nwrc.usgs.gov/wdb/pub/0132.pdf
38.	1994	Henjum, M.G. and seven others. 1994. Interim protection for late-successional forests, fisheries and watersheds. National Forests east of the Cascade crest, Oregon and Washington. A report to the United States Congress and the President. The Wildlife Society, Bethesda, MD. www.wildlife.org/publications/index.cfm?tname=pubs&pubid=pub05
39.	1981	Hollender, B.A. 1981. Embryo Survival, Substrate Composition and Dissolved Oxygen in Redds of Wild Brook Trout. University of Wisconsin, Stevens Point. 87 p.
40.	1985	Howell, P., K. Jones, D. Scarnecchia, L. LaVoy, W. Knedra, and D. Orrmann. 1985. Stock assessment of Columbia River anadromous salmonids, 2 volumes. Final Report to Bonneville Power Administration, Portland, Oregon (Project 83-335).

41.	1993	Jackson, P.L. 1993. Climate. P. 48-57 in: Jackson, P.L and A. J. Kimerling (eds.). Atlas of the Pacific Northwest. Oregon State University Press, Corvallis, Oregon.
42.	1997	Johnson, O.W., W.S. Grant, R.G. Cope, K. Neely, F.W. Waknitz, and R.S. Waples. 1997. Status review of chum salmon from Washington, Oregon, and California. U.S. Dept. Commer., NOAA Tech. Memo. NMFS-NWFSC-32. 280 p.
43.	1997	Lee, D.C., JR. Sedell, B.E. Reiman, R.F. Thurow, J.E. Williams. 1997. BROADSCALE assessment of aquatic species and habitats. P. 1058-1496 in: T.M. Quigley and S.J. Arbelbide, eds. An Assessment of Ecosystem Components in the Interior Columbia Basin and portions of the Klamath and Great Basins. U.S. Forest Service General Technical Report PNW-GTR-405. Portland, OR. http://www.icbemp.gov/science/scipubs.shtml
44.	1993	Maret, T.R., T.A. Burton, G.W. Harvey, and W.H. Clark. 1993. Field testing of new monitoring protocols to assess brown trout spawning habitat in an Idaho stream. N. Am. J. Fish. Man. 13:567-580.
45.	1943	Marr, J.C. 1943. Age, length, and weight studies of three species of Columbia River salmon (<i>Oncorhynchus keta</i> , <i>O. gorbuscha</i> and <i>O. kisutch</i>). Stanford Ichthyological Bulletin 2:157-197.
46.	1969	Mason, J.C. 1969. Hypoxial stress prior to emergence and competition among coho salmon fry. J. Fish. Res. Bd. Canada 26:63-91.
47.	2001	Materna, E. 2001. Issue paper 4: temperature interaction. Prepared as part of EPA Region 10 Temperature Water Quality Criteria Guidance Development Project. EPA-910-D-01-004. U.S. Environmental Protection Agency, Region 10, Seattle, Washington. 33 p.
48.	1991	Matthews, G. M., and R. S. Waples. 1991. Status review for Snake River spring and summer chinook salmon. U.S. Dep. Commer., NOAA Tech. Memo. NMFS F/NWC-200. 75 p. http://www.nwfsc.noaa.gov/publications/techmemos/tm200/tm200.htm
49.	1948	Mattson, C.R. 1948. Spawning ground studies of Willamette River spring Chinook salmon. Fish Commission of Oregon Research Briefs 1(2):21-32.
50.	2000	McClure, M., B. Sanderson, E. Holmes, C. Jordan, P. Kareiva, and P. Levin. 2000. Revised Appendix B of standardized quantitative analysis of the risks faced by salmonids in the Columbia River basin. National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, Washington.
51.	1999	McCullough, D.A. 1999. A review and synthesis of effects of alterations to the water temperature regime on freshwater life stages of salmonids, with special reference to chinook salmon. Prepared for the U.S. Environmental Protection Agency, Region 10, Seattle, Washington. 279 p.
52.	2001	McCullough, D.A., S. Spalding, D. Sturdevant, and M. Hicks. 2001. Issue paper 5: Summary of technical literature examining the physiological effects of temperature on salmonids. Prepared as part of EPA Region 10 Temperature Water Quality Criteria Guidance Development Project. EPA-910-D-01-005. U.S. Environmental Protection Agency, Region 10, Seattle, Washington. 114 p.

53.	1994	McIntosh, B.A., J.R. Sedell, J.E. Smith, R.C. Wissmar, S.E. Clarke, G.H. Reeves, and L.A. Brown. 1994. Management history of eastside ecosystems: Changes in fish habitat over 50 years, 1935 to 1992. USDA Forest Service, Pacific Northwest Research Station, General Technical Report PNW-GTR-321. February.
54.	2000	McElhany, P., M. Ruckleshaus, M. J. Ford, T. Wainwright, and E. Bjorkstedt. 2000. Viable Salmon Populations and the Recovery of Evolutionarily Significant Units. U.S. Dept. Commer., NOAA Technical Memorandum NMFS-NWFSC-42. 156 p. http://www.nwfsc.noaa.gov/publications/techmemos/tm42/tm42.pdf
55.	1950	McKernan, D.L., and C.R. Mattson. 1950. Observations on pulp and paper effluents and the probable effects of this pollutant on the fisheries resources of the Willamette River in Oregon. Fish Commission of Oregon, Fish Commission Research Briefs 3(1):14-21.
56.	1998	Myers, J.M., R.G. Kope, G.J. Bryant, D. Teel, L.J. Lierheimer, T.C. Wainwright, W.S. Grant, F.W. Waknitz, K. Neely, S.T. Lindley, and R.S. Waples. 1998. Status review of Chinook salmon from Washington, Idaho, Oregon, and California. NMFS-NWFSC-35. U.S. Dept. Commer., NOAA Technical Memorandum. 443 p. http://www.nwfsc.noaa.gov/publications/techmemos/index.cfm
57.	1996	National Research Council. 1996. Upstream—Salmon and Society in the Pacific Northwest. National Academy Press, Washington, D.C.
58.	1992	Nickelson, T.E., J.D. Rodgers, S.L. Johnson, and M.F. Solazzi. 1992. Seasonal changes in habitat use by juvenile coho salmon (<i>Oncorhynchus kisutch</i>) in Oregon coastal streams. Canadian J. Fish. Aquat. Sci. 49:783-789.
59.	1995	NOAA Fisheries (NOAA's National Marine Fisheries Service). 1995. Proposed recovery plan for Snake River salmon. Protected Resources Division, Portland, Oregon.
60.	1999	NOAA Fisheries (NOAA's National Marine Fisheries Service). 1999a. Biological and conference opinion. Approval of Oregon water quality standards for dissolved oxygen, temperature, and pH. National Marine Fisheries Service, Northwest Region, Seattle, WA.
61.	1999	NOAA Fisheries (NOAA's National Marine Fisheries Service). 1999b. Biological opinion on artificial propagation in the Columbia River basin—Incidental take of listed salmon and steelhead from Federal and non-Federal hatchery programs that collect, rear, and release unlisted fish species. National Marine Fisheries Service, Northwest Region, Seattle, WA. [This reference was included erroneously in the Literature Cited Section; it was not cited in the Biological Opinion and therefore no copy is provided].

62.	1999	NOAA Fisheries (NOAA's National Marine Fisheries Service). 1999. The habitat approach. Implementation of section 7 of the Endangered Species Act for actions affecting the habitat of Pacific anadromous salmonids. Northwest Region, Habitat Conservation and Protected Resources Divisions. August 26. http://www.nwr.noaa.gov/1habcon/habweb/habguide/habitatapproach_081999.pdf
63.	2000	NOAA Fisheries (NOAA's National Marine Fisheries Service). 2000. Biological Opinion. Reinitiation of Consultation on Operation of the Federal Columbia River Power System, Including the Juvenile Fish Transportation Program, and 19 Bureau of Reclamation Projects in the Columbia Basin. National Marine Fisheries Service, Northwest Region, Seattle, WA. http://bluefin.nmfs.noaa.gov/pls/pcts-pub/sxn7.pcts_upload.download?p_file=F16616/199901901_fcrps_coe(sections01-05)_12-21-2000.pdf
64.	1997	Oregon Coastal Salmon Restoration Initiative. 1997. State of Oregon, Salem, Oregon. March 10.
65.	1999	Oregon Department of Administrative Services. 1999. Oregon Economic and Revenue Forecast. Vol. XIX. No. 2. Office of Economic Analysis, Salem.
66.	1995	ODEQ (Oregon Department of Environmental Quality). 1995. Dissolved Oxygen. Final Issue Paper. 1992-1994 Water quality standards review. Standards and Assessment Section, Portland, Oregon.
67.	2003	ODEQ (Oregon Department of Environmental Quality). 2003. Oregon Department of Environmental Quality Laboratory Technical Services electronic database, Portland, Oregon. Accessed September 24 and October 24, 2003. http://www.deq.state.or.us/wq/lasar/LasarHome.htm
68.	1998	ODFW (Oregon Department of Fish and Wildlife). 1998a. Briefing paper—Lower Columbia River chinook ESU. ODFW, Portland. October 13.
69.	2002	ODFW (Oregon Department of Fish and Wildlife). 2002. 1:24K Fish Habitat Distribution Development Project Procedures Manual. Salem, Oregon. http://oregonstate.edu/dept/nrimp/24k/
70.	2003	ODFW (Oregon Department of Fish and Wildlife). 2003b. Coastal salmonid inventory project: coho abundance—stratified random sampling estimates for coastal river basins 1990-2002. http://oregonstate.edu/Dept/ODFW/spawn/coho.htm
71.	1994	Phelps, S.R., L.L. LeClair, S. Young, and H.L. Blankenship. 1994. Genetic diversity patterns of chum salmon in the Pacific Northwest. Canadian J. Fish. Aquat. Sci. 51 (Suppl. 1):65-83.
72.	1962	Phillips, R.W. and H.J. Campbell. 1962. The embryonic survival of coho salmon and steelhead trout as influenced by some environmental conditions in gravel beds. P. 60-73 in: 14 th Annual Report. Pacific Marine Fisheries Commission, Portland, OR. 108 p.
73.	2001	Poole, G.C., and C. Berman. 2001. An ecological perspective on in-stream temperature: natural heat dynamics and mechanisms of human-caused thermal degradation. Environmental Management 27(6):787-802.

74.	2001	Poole, G., J. Risley, and M. Hicks. 2001. Issue paper 3: Spatial and temporal patterns of stream temperature (revised). EPA-910-D-01-003. U.S. Environmental Protection Agency, Region 10, Seattle, Washington. 31 p.
75.	1994	Rhodes, J.J., D.A. McCullough, and F.A. Espinosa, Jr. 1994. A coarse screening process for potential application in ESA consultations. Columbia River Intertribal Fish Commission. Prepared under NMFS/BIA Inter-Agency Agreement 40ABNF3. December. http://www.critfc.org/tech/94-4report.html
76.	1992	Reisenbichler, R.R., J.D. McIntyre, M.F. Solazzi, and S.W. Landino. 1992. Genetic variation in steelhead of Oregon and northern California. Trans. Am. Fish. Soc. 121:158-169.
77.	1942	Rich, W.H. 1942. The salmon runs of the Columbia River in 1938. Fisheries Bulletin 50:103-147.
78.	2000	Risser, P.G. 2000. Oregon State of the Environment Report. Oregon Progress Board.
79.	1986	Rombaugh, P.J. 1986. Mathematical model for predicting the DO requirements of steelhead (<i>Salmo gairdneri</i>) embryos and alevins in hatchery incubators. Aquaculture 59:119-137.
80.	1991	Salo, E.O. 1991. Life history of chum salmon, <i>Oncorhynchus keta</i> . P. 231-309 in: C. Groot and L. Margolis, eds. Pacific salmon life histories. University of British Columbia Press, Vancouver, B.C.
81.	2001	Sauter, S.T., J. McMillan, and J. Dunham. 2001. Issue paper 1: Salmonid behavior and water temperature. Prepared as part of EPA Region 10 Temperature Water Quality Criteria Guidance Development Project. EPA-910-01-001. U.S. Environmental Protection Agency, Region 10, Seattle, Washington. 36 p.
82.	1986	Schreck, C.B., H.W. Li, R.C. Jhort, and C.S. Sharpe. 1986. Stock identification of Columbia River chinook salmon and steelhead trout. Final report to Bonneville Power Administration, Portland, Oregon (Project 83-451).
83.	1980	Skaugsett, A.E. 1980. Fine organic debris and dissolved oxygen in streambed gravels in the Oregon Coast Range. M.S. thesis. Forest Engineering Department, Oregon State Univ., Corvallis. 77 p.
84.	1985	Sowden, T.K. and G. Power. 1985. Prediction of rainbow trout embryo survival in relation to groundwater seepage and particle size of spawning substrates. Trans. Am. Fish. Soc. 114:804-812.
85.	1996	Spence, B.C., G.A. Lomnický, R.M. Hughes, R.P. Novitzki. 1996. An ecosystem approach to salmonid conservation. TR-4501-96-6057. ManTech Environmental Research Services Corp., Corvallis, OR. http://www.nwr.noaa.gov/lhabcon/habweb/habguide/ManTech/front.htm
86.	1987	Tang, J., M.D. Bryant, and E.L. Brannon. 1987. Effect of temperature extremes on the mortality and development rates of coho salmon embryos and alevins. Prog. Fish-Cult. 49(3):167-174.
87.	1980	Turnpenny, A.W.H. and R. Williams. 1980. Effects of sedimentation on the gravels of an industrial river system. J. Fish. Biol. 17:681-693.

88.	1999	USFWS (U.S. Fish and Wildlife Service). 1999. Oregon water quality standards ESA consultation. U.S. Department of the Interior, U.S. Fish and Wildlife Service, Oregon State Office, Portland, OR. July 1, 1999. [Refer to No. 16 in USFWS Index]
89.	1962	Vaux, W.G. 1962. Interchange of stream and intragravel water in a salmon spawning riffle. Special Scientific Report – Fisheries No. 405. U.S. Dept. of the Interior, Fish and Wildlife Service. 11 p.
90.	1999	Waples, R.S. 1999. Dispelling some myths about hatcheries. Fisheries 24(2):12-21.
91.	1991	Waples, R.S., R.P. Jones, Jr., B.R. Beckman, and G.A. Swan. 1991a. Status review for Snake River fall chinook salmon. U.S. Department of Commerce, NOAA Tech. Memo. NMFS F/NWC-201. 73 p.
92.	1991	Waples, R. S., O.W. Johnson, and R.P. Jones, Jr. 1991b. Status review for Snake River sockeye salmon. U.S. Department of Commerce, NOAA Technical Memorandum NMFS F/NWC-195. Prepared by the National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, WA. 14 p.
93.	1992	WDF (Washington Department of Fisheries), WDW (Washington Department of Wildlife), and WWTIT (Western Washington Treaty Indian Tribes). 1993. Washington state salmon and steelhead stock inventory (SASSI), 1992. WDF, WDW, and WWTIT, Olympia.
94.	2000	WDFW (Washington Department of Fish and Wildlife). 2000. Chum salmon: Columbia River chum salmon. Washington Department of Fish and Wildlife, Olympia, WA. Available online at: http://www.wa.gov/wdfw/fish/chum/chum-7.htm
95.	1973	Wedemeyer, G. 1973. Some physiological aspects of sublethal heat stress in the juvenile steelhead trout (<i>Salmo gairdneri</i>) and coho salmon (<i>Oncorhynchus kisutch</i>). J. Fish. Res. Bd. Canada 30:831-834.
96.	1995	Weitkamp, L.A., T.C. Wainwright, G.J. Bryant, G.B. Milner, D.J. Teel, R.G. Kope, and R.S. Waples. 1995. Status review of coho salmon from Washington, Oregon, and California. NOAA Technical Memorandum NMFS-NWFSC-24. National Marine Fisheries Service, Northwest Fisheries Science Center, Coastal Zone and Estuarine Studies Division, Seattle, WA.
97.	1994	Wissmar, R.C., J.E. Smith, B.A. McIntosh, H.W. Li, G.H. Reeves, and J.R. Sedell. 1994. Ecological health of river basins in forested regions of eastern Washington and Oregon. Gen. Tech. Rep. PNW-GTR-326. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, Oregon. 65 p. http://www.fs.fed.us/pnw/publications/popularpubs.shtml
98.	2001	Water Temperature Criteria Technical Workgroup. 2001. Technical synthesis: scientific issues relating to temperature criteria for salmon, trout, and char native to the Pacific Northwest. A summary report submitted to the Policy Workgroup of the USEPA Region 10 Water Temperature Criteria Guidance project. EPA910-R-01-007. U.S. Environmental Protection Agency, Region 10, Seattle, Washington. 21 p.

E. State of Oregon Documents

NO.	DATE	DOCUMENT
99.	2/4/2004	Letter to Randy Smith, EPA, from Michael T. Llewelyn, ODEQ, re: Oregon Responses to EPA, Questions re: State's Water Quality Temperature Standards
100.	12/10/2003	Letter to John Iani, EPA, from Stephanie Hallock, ODEQ, re: Oregon Submission of Revisions to the State Water Quality Standards (OAR 340-041) for EPA Review and Approval
101.	11/10/2003	Department of Environmental Quality Water Pollution Division 41 Water Quality Standards: Beneficial Uses, Policies, and Criteria for Oregon
102.	5/27/2003	Life Stage Timing Criteria, Definitions, & Questions (from ODFW)
103.	5/27/2003	Fish Habitat Distribution Development Project Primary Data Products – Descriptions and major attributes (from ODFW)
104.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, Deschutes Basin, Oregon (see Beneficial Use Maps folder)
105.	10/2003	Salmonid Designation Use Map: Salmon, Steelhead & Bull Trout Spawning through Fry Emergence Use Designations, Deschutes Basin, Oregon (see Beneficial Use Maps folder)
106.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, Grande Ronde Basin, Oregon (see Beneficial Use Maps folder)
107.	10/2003	Salmonid Designation Use Map: Salmon, Steelhead & Bull Trout Spawning through Fry Emergence Use Designations, Grande Ronde Basin, Oregon (see Beneficial Use Maps folder)
108.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, Hood Basin, Oregon (see Beneficial Use Maps folder)
109.	10/2003	Salmonid Designation Use Map: Salmon, Steelhead & Bull Trout Spawning through Fry Emergence Use Designations, Hood Basin, Oregon (see Beneficial Use Maps folder)
110.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, John Day Basin, Oregon (see Beneficial Use Maps folder)
111.	10/2003	Salmonid Designation Use Map: Salmon, Steelhead & Bull Trout Spawning through Fry Emergence Use Designations, John Day Basin, Oregon (see Beneficial Use Maps folder)
112.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, Mid-Coast Basin, Oregon (see Beneficial Use Maps folder)
113.	10/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Mid-Coast Basin, Oregon (see Beneficial Use Maps folder)
114.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, North Coast Basin, Oregon (see Beneficial Use Maps folder)

115.	10/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, North Coast Basin, Oregon (see Beneficial Use Maps folder)
116.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, Sandy Basin, Oregon (see Beneficial Use Maps folder)
117.	10/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Umpqua Basin, Oregon (see Beneficial Use Maps folder)
118.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, Umpqua Basin, Oregon (see Beneficial Use Maps folder)
119.	10/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Sandy Basin, Oregon (see Beneficial Use Maps folder)
120.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, South Coast Basin, Oregon (see Beneficial Use Maps folder)
121.	10/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, South Coast Basin, Oregon (see Beneficial Use Maps folder)
122.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, Umatilla Basin, Oregon (see Beneficial Use Maps folder)
123.	10/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Umatilla Basin, Oregon (see Beneficial Use Maps folder)
124.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, Rogue Basin, Oregon (see Beneficial Use Maps folder)
125.	10/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Rogue Basin, Oregon (see Beneficial Use Maps folder)
126.	10/2003	Salmonid Designation Use Map: Salmonid Use Designations, Willamette Basin, Oregon (see Beneficial Use Maps folder)
127.	10/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Willamette Basin, Oregon (see Beneficial Use Maps folder)